

NEVADA STATE FIRE MARSHAL

BUILDING CODE ANALYSIS / BASIS OF DESIGN FORM

NOTE: Items in this form do not cover all requirements for any specific building. Its use is intended as a design check aid and for use as part of the submittal package for plan review by the Office of the Nevada State Fire Marshal. Ref. UBC, 1994 Edition.

Project Name _____ **Date** _____

Design Professional/Firm _____

A. OCCUPANCY GROUP(S) TABLE 3-A
Group Description

_____	_____
_____	_____
_____	_____

- B. Automatic Sprinkler System** ☐ Yes ☐ No
Reason: ☐ Required, section 904 ☐ Increase # of stories, Sec. 506
☐ Increase allow. area, Sec. 505.3 ☐ Atria, Sec. 402.1
☐ Sub. for 1-hr. const., Sec. 508 ☐ State Bldg NAC 477.910, 477.915
☐ Other _____

- C. TYPE OF CONSTRUCTION:** (Chapter 6) CIRCLE ONE
(Non-combustible) I-FR II-FR II-1 hr II-N
(Combustible) III-1 hr III-N IV-HT V-1 hr V-N

D. LOCATION ON PROPERTY: Section 503

1. Fire Resistance of Exterior Walls: Table 5-A

O.G.	Required Hour(s)	Required <Feet	Min. Actual* Dist. to P.L.	Protection Requirements	Assembly Source & #
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

2. Protection of Openings in Exterior Walls: Table 5-A

O.G.	Required Hour(s)	Required <Feet	Min. Actual* Dist. to P.L.	Protection Requirements
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

O.G.= Occupancy Group

P.L.= Property Line

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* = Distance to P.L. or **CENTERLINE** of adjoining public way, per Section 503.1.

MIXED OCCUPANCY BUILDING ONLY!

(See page 2 for single occupancy building)

F. ALLOWABLE AREA: Section 504.3 Mixed Occupancy:

NOTE: WHERE REMODEL OR ADDITION IS INVOLVED, INCLUDE ALL EXISTING PORTIONS OF THE BUILDING IN THIS CALCULATION.

Distance - building to property line, North _____ South _____
 Plus **FULL** width of adjoining public way: East _____ West _____

Separation on _____ sides (yards/public ways): section 505.

Min. distance exceeding 20 ft: _____ x _____ % = _____ % increase.

Increase for sprinkler system: yes [] increase allowed by section 505.3
 no [] no increase taken, or not allowed

Occupancy Group	Basic Allow. Area	Multi-story	% Inc. Yards	Inc. Fire Sprinklers	Allowable Area (Square Feet)
(_____)	_____	x _____	x _____	x _____	= _____
(_____)	_____	x _____	x _____	x _____	= _____
(_____)	_____	x _____	x _____	x _____	= _____
(_____)	_____	x _____	x _____	x _____	= _____
(_____)	_____	x _____	x _____	x _____	= _____
(_____)	_____	x _____	x _____	x _____	= _____

Actual Area	+	Actual Area	+	Actual Area	+	Actual Area	+	Actual Area	= < 1*
Allowable Area		Allowable Area		Allowable Area		Allowable Area		Allowable Area	

(OG _____) (OG _____) (OG _____) (OG _____) (OG _____)

_____ + _____ + _____ + _____ + _____

*
 + + + + = _____

OG = Occupancy Group

* = **SHALL NOT EXCEED ONE, per section 504.3**

G. OCCUPANT LOADS / NUMBER OF EXITS: Table 10-A

The floor area used for determining the occupant load of an area shall be the total square footage as measured from the inside surfaces of walls, and includes area of furnishings, counters, closets, etc. Accessory spaces such as corridors and restrooms, which are used only by the persons who occupy the main areas need not be included in computing the total occupant load of the building. However, those areas must be provided with exits as though they were completely occupied.

Occupancy Description	Area in Sq. Ft.	O. L. / Factor	=	O.L.*	Min. 2 Exits When O.L. =	# of Exits Req. / Prov.
_____	_____	_____	=	_____	_____	_____
_____	_____	_____	=	_____	_____	_____
_____	_____	_____	=	_____	_____	_____
_____	_____	_____	=	_____	_____	_____
_____	_____	D	=	_____	_____	_____
_____	_____	I	=	_____	_____	_____
_____	_____	V	=	_____	_____	_____
_____	_____	I	=	_____	_____	_____
_____	_____	D	=	_____	_____	_____
_____	_____	E	=	_____	_____	_____
_____	_____	D	=	_____	_____	_____
_____	_____	_____	=	_____	_____	_____
_____	_____	B	=	_____	_____	_____
_____	_____	Y	=	_____	_____	_____
_____	_____	_____	=	_____	_____	_____
_____	_____	_____	=	_____	_____	_____
_____	_____	_____	=	_____	_____	_____
_____	_____	_____	=	_____	_____	_____
_____	_____	_____	=	_____	_____	_____
_____	_____	_____	=	_____	_____	_____

* = .5 or greater = 1.0

Less than .5 = 0.0

O.L. = Occupant Load

Req. = Required

Prov. = Provided

Total = _____

H. OCCUPANCY SEPARATION Table 3-B,sect. 302: Where req'd, & assembly no.

I. AREA SEPARATION Sect. 504.6: Where required, and assembly used

J. SPECIFIC REQUIREMENTS - OCCUPANCY GROUP : Chapter 3

K. ROOF CLASS : Table 15-A: Circle One roof class: [A][B][C]

L. SPECIFIC REQUIREMENTS - CONSTRUCTION TYPE : Chapter 6

M. DISTANCE TO EXITS: Section 1003.4

<u>Required</u>	<u>Provided</u>
[] 150 feet.....	_____
[] 200 feet with automatic sprinklers.....	_____
[] 250 feet (last 150 feet within corridor).....	_____
[] 300 feet (plus auto. sprinkler & within corridor).....	_____
[] _____ feet "E" occupancy: section 1017.3.....	_____
[] _____ feet "H" occupancy: section 1018.....	_____
[] _____ feet atrium: section 402.4.....	_____
[] _____ feet mall: section 404.4.5.....	_____

N. WIDTH OF EXITS: Chapter 10

MINIMUM REQUIREMENTS:

Doors: 3 ft. wide by 6 ft. 8 inches high 1004.6

Corridors: Section 1005.2

For specific requirements see Sections 1016 thru 1019.

NOTE: E-1 corr. width shall be as req'd. by Sec. 1003.2 plus 2 ft., but not less than 6 ft. and based on total O.L. served by corridor, per section 1017.5.

<u>Exit</u>	<u>Corr.</u>	<u>Description</u>	<u>O.L.</u>	<u>O.L.</u> <u>x.2 or</u> <u>x.3</u>	<u>Exit*</u> <u>Width</u> <u>Req'd.</u>	<u>Exit*</u> <u>Width</u> <u>Prov.</u>	<u>Corr.</u> <u>Width</u> <u>Req'd.</u>	<u>Corr.</u> <u>Width</u> <u>Prov.</u>
<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____	_____	_____	_____	_____
<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____	_____	_____	_____	_____
<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____	_____	_____	_____	_____
<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____	_____	_____	_____	_____
<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____	_____	_____	_____	_____
<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____	_____	_____	_____	_____
<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____	_____	_____	_____	_____
<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____	_____	_____	_____	_____
<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____	_____	_____	_____	_____
<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____	_____	_____	_____	_____
<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____	_____	_____	_____	_____
<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____	_____	_____	_____	_____
<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____	_____	_____	_____	_____
<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____	_____	_____	_____	_____

Corr. = Corridor

Prov. = Provided

O.L. = Occupant Load

Req'd. = Required

* = Total Exit Width

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O. HAZARDOUS MATERIALS - Tables 3-D & 3-E

If there are any combustible, flammable and/or hazardous materials used and/or stored within the building(s) to be reviewed, the firm/individual submitting plans for review shall supply this office with a report on the above prepared by one of the following:

- Certified Plans Examiner
- Certified Uniform Fire Code Inspector
- Code Consultant
- Certified Building Official
- Nevada Licensed Architect
- Nevada Licensed Engineer

This report shall include:

- A. All material Safety Data Sheets (MSDS) shall be classified as to which material category(ies) are applicable as specifically related to Tables 3-D and 3-E of the Uniform Building Code, 1994 Edition.
- B. Using the classifications obtained in 'A' above and quantities of each in use and/or storage within the building, determine proper occupancy classification(s) for areas of the building involved with those same materials.

The report shall be submitted to this office in writing and shall have original stamp and/or signature, license/certification number, firm, name and date.

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P. FIRE RESISTIVE REQUIREMENTS - TYPE OF CONSTRUCTION
Chapter 6 & Table 6-A

<u>Description of Building Element</u>	<u>Rating in Hours</u>	<u>Assembly No.*</u>
Exterior Bearing Walls	_____	_____
Interior Bearing Walls	_____	_____
Exterior Non-bearing Walls	_____	_____
Structural Frame	_____	_____
Partitions, Permanent	_____	_____
Shaft Enclosures	_____	_____
Floors-Ceilings/Floors	_____	_____
Roofs-Ceilings/Roofs	_____	_____
Exterior Doors & Windows	_____	_____

Parapets - Required? ____ yes ____ no Section 709.4.1

* Specific listed assembly numbers from UBC, UL, FM, Gypsum Fire Resistance Design Manual, or other approved listing agency.

NOTE: If more than one type of construction, use additional page(s).